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NTERMATIC:



T170CR Series 24 Hour Dial with Skipper and Carry- model T171CR shown.

Mechanical Time Switches

24 Hour - This heavy duty mechanical time switch is designed for industrial, commercial and residential applications. This time switch has the highest horsepower ratings in the industry for loads up to 40 amps resistive from 120 to 480 volts providing direct 24 hour time switch control of most loads. This series provides 1 to 12 "ON/OFF" operations each day with minimum ON/OFF times of 1 hour. All models are equipped with one "ON" and one "OFF" tripper.

24 Hour, 40 Amp with 7 Day Skipper - The skipper series performs the same functions as the Century time switch plus it allows you to omit operation on selected day(s) of the week. Cutout screws provided with the time switch are inserted in the day skipper dial for days which operation is to be skipped. The T170 series provides up to 10 ON/OFF operations every day with minimum ON/OFF operations of 1 hour and maximum ON time of 20 hours. All models are equipped with one CUTOUT tripper (which also serves as an "ON" tripper), one "OFF" tripper and three skipping screws. 24 Hour Portable - These portable cord connected time switches perform all the functions of the T100 and T170 series time switches plus they are completely portable eliminating the need for wiring. This time switch can be moved to new locations for different applications (indoor applications only). All models supplied complete with grounded cord set and receptacle installed. 7 Day, 40 Amp - These heavy-duty mechanical time switches are designed for industrial, commercial and residential applications. These time switches provide a

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different "ON/OFF" program each day of the week. They also provide for 4 pole single throw and 4 pole (2NO/2NC) switching. This series provides true 7-day load control with minimum ON and minimum OFF times of 3-1/2 hours. The "BC" models with carry-over provide a carry-over of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carry-over automatically rewinds itself. Only 1 hour is required to rewind the carry-over for each 2 hours of outage. The carry-over models are ideal in applications where true 7-day control is required and where power outages occur entailing costly resetting.

Repeat Cycle - These timers provide repeat cycling for applications which require as short as 2-1/2 second "ON" times. Models provide for complete dial cycle every 5, 10 or 30 minutes and every 1 or 4 hours with tripper actuating times of 2-1/2, 5, 15, 30 or 120 seconds duration, respectively. Ten combination "ON/OFF" trippers supplied with each switch. Dials on all models have 120 slots.

Water Heater - The WH40 and WH80 provides a convenient external override switch. Utilities in some areas of the country offer two electric rates for residential or commercial customers. One rate has the regular daytime electrical rate, the other is "off peak" rate. The off peak rate provides customers with lower-priced electricity during the nighttime and weekend periods. The special construction of the WH80, incorporating a skipper function, enables the customer to have all the hot water required, especially on weekends when the time switch permits 24 hour a day operation automatically. Since the WH80 has normally closed contacts, the water heater will remain ON during the weekend when the skipper is set to do so. Three sets of ON/OFF trippers (and three skipper screws for model WH80) are supplied.

Astronomic - This time switch is self

adjusting for seasonal changes to provide energy saving control of outdoor lighting. One setting provides you lights ON at sunset, lights OFF at sunrise or between 8:30 P.M. and 2:30 A.M. all year long. The astronomic dial; automatically adjusts itself as the days grow shorter or longer. A skipper provides lighting control to be omitted on selected day(s) of the week. The carry-over is designed to maintain preset schedule during power outages for a minimum of 16 hours. When power resumes, the carry-over automatically rewinds itself. Only 1 hour is required to rewind the carry-over for each 2 hours of outage. These switches are ideal in areas where power outages occur and entail costly resetting. The 3PST switch configuration provides for control of 3-phase lighting. Three skipper screws are furnished. These switches come standard in a rainproof NEMA 3R enclosure for outdoor installations. 24 Hour, 40 Amp with 7 Day Skipper and Carryover - These models provide the same features as the T170 Series Skipper models for omitting operation on selected day(s) of the week. The T170CR series also provides a minimum of 16 hours of carry-over for maintaining preset schedules during power failures. The carry-over automatically rewinds when power resumes. Only one hour is required to rewind the carry-over for each two hours of power outage. All models are equipped with one CUTOUT tripper (which also serves as "ON" tripper), one "OFF" tripper and three skipper screws. The 4PST models are ideal for 3-phase load control. 24 Hour, 20 Amp with 7 Day Skipper and Carryover - The T1900 Supervisor Series provides up to 96 operations (48 ON/48 OFF) every 24 hours. This series provides operations with minimum ON/OFF times of 15 minutes. Trippers slide in and out of dial for fast accurate setting. The skipper models provide for operations to be omitted on selected day(s) of the week. Models with carry-over provide a minimum of 16 hours of

carry-over to maintain preset schedules within ± 2% accuracy during power failures. The carry-over automatically rewinds when power resumes. Only one hour is required to rewind the carry-over for each two hours of power outage. These switches are ideal in areas where shorter duration ON/OFF times are required and power outages occur entailing costly resetting.

<u>7 Day, 20 Amp</u> - The T2000 Series provides up to 84 (42 "ON/OFF") operations each week. Minimum "ON/OFF" times for this series are 2 hours each providing up to 6 "ON/OFF" operations each day.

7 Day, 15 Amp

Percentage Cycle Timers - This timer provides repetitive cycling for fans, misters, foggers, feeders, process equipment, oil pumps, irrigation, nurseries and other short cycle applications. The timer is field adjustable for a percentage of a total cycle duration. Total cycle durations can be set from 30 seconds up to a maximum of 30 minutes, with ON/OFF durations from 1 second up to 29 minutes. The total cycle duration is selected by positioning two jumpers on the circuit board, which are factory preset for 10 minutes. The percentage of total ON time is selected using the rotary knob, which provides 30 separate detent positions for precise selection. Power input may be any standard 120 volt or 240 volt AC supply. The timer enclosure includes two slotted mounting holes on 5" centers and a 1/2" knockout for conduit connection. This timer is designed to function in dusty, ammonia and wash-down environments. It has an environmental operating temperature range of -10°C (14°F) to +60°C (140°F) and will withstand up to 6000 volt 3000 amp power surges.

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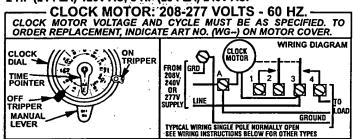
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MODEL: T106R 24 HOUR DIAL TIME SWITCH

LR3730

IN TYPE 3R RAINPROOF ENCLOSURE SUITABLE FOR POOL EQUIPMENT CONTROL IF INSTALLED 5 FT. OR MORE FROM EDGE OF POOL ONE NORMALLY OPEN-ONE NORMALLY CLOSED CONTACTS MAY BE WIRED AS SINGLE POLE DOUBLE THROW. 40 AMP. RESISTIVE INDUCTIVE, TUNGSTEN OR 1000 VA PILOT DUTY 120-277 VOLT AC; 2 HP (24 FLA)-120V AC; 5 HP (28 FLA)-240V AC.



WIRING INSTRUCTIONS: To wire switch follow diagram above. To wire as SINGLE POLE NORMALLY CLOSED, move motor lead from terminal 3 to 1, and connect LINE to 1, LOAD to 2. To wire as SINGLE POLE DOUBLE THROW, install jumper (the same gauge as LINE wire) between terminals 2 and 3 and connect LINE to 2, LOADS to 1 and 4. NOTE: Line 2 if present is uninterrupted. Use COPPER wire only. For gauge selection and wire connection, see details below. Use 3/16 or larger screwdriver to tighten terminal screws firmly. (25 lb-in minimum). REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY.

	MINIMUM COPPER WIRE SIZE	MAX. LOAD	MIN. MISUL-	,	S'E MSULAT LO	TOK MAX. N AD (HP)	LOTOR	PRESSURE PLATE
ĺ	WIRE SIZE	(AMP)	ATION TEMP(°C)	SING	LE PHASE	11	HASE	
i	(AME)		, 0,	126 V.	240 V.	204 V.	240 V.	TERMINAL SCREW
	14 12 10 8	15 20 30 40	60 60 60 75	1/2 1 2	2 2 1/2 3 5	N/A	N/A	MAKE SURE WIRE INSULATION CLEARS PRESSURE PLATE

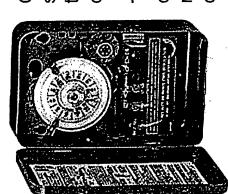
- PROGRAMMING INSTRUCTIONS

 1. TO SET "ON" AND "OFF" TIMES: Hold trippers against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired, tighten tripper screws firmly. For additional tripper pairs on CLOCK-DIAL order 156T1978A.

 2. TO SET TIME-OF-DAY: Pull CLOCK-DIAL outward. Turn in
- either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer. DO NOT MOVE POINTER.
- **OPERATING INSTRUCTIONS**
- TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not effect next operation.
- IN CASE OF POWER FAILURE, reset CLOCK-DIAL to proper time-of-day. See programming instructions.

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158TS10916 SPRING GROVE, ILLINOIS 60081-9698



time switch are inserted in the day skipper dial for days which selected day(s) of the week. Cutout screws provided with the Century time switch plus it allows you to omit operation on The skipper series performs the same functions as the operation is to be skipped.

maximum ON time of 20 hours. All models are equipped with The T170 series provides up to 10 ON/OFF operations every one CUTOUT tripper (which also serves as an "ON" tripper), day with minimum ON/OFF operations of 1 hour and one "OFF" tripper and three skipping screws.

Sample sSpec	Spec	Spec	Spec	Spec	Spec	Spec
ישארי DiagramsSpec	Wiring <u>Diagrams</u>	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams
InstructionWiring jSheets Diagram	Manual	Manual	<u>Manual</u>			
Amps/Pole RatingSheets	2	5	2	ν.	. 2	5
mps/Po	40	40	40	40	40	40
Clock Motor Volts 60 Hz	125	208- 277	125	208-	* 125	* 208- 277
Switch	SPST	SPST	DPST	DPST	INO/INC** 125	1NO/1NC** 208- 277
Model	LIL	T172	T173	T174	T175	T176

- ► Malibu Low Voltage Lighting ► Malibu Solar Lighting
 - Home Protection & Controls
 - ► Pool & Spa Controls **Energy Controls**
 - ▼ Surge Suppression
- Weatherproof Products Professional Lighting
 - ▼ Mosquito Products
- Energy Controls

- Mechanical Time Switches - Electronic Time Switches
- Photo Controls
- In-Wall Timers

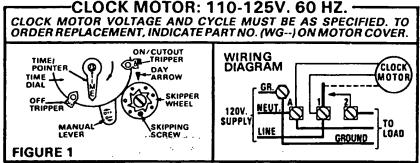
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Spec	Spec	Spec	Spec	Spec	Spec
Wiring	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring	Wiring Diagrams
2	5	7	5	•	Š
40	40	40	40	70	40
J	208- 277	<u>\$</u>	** 208- 277	208- 277	480
4PST	4PST	VO/2NC	VO/2NC*	SPST	4PST
T1471BR 4PST	T1472BR 4PST	T1871BR2NO/2NC** 125	T1872BR2N	T172B	T1475BR

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MODEL: T171

24 HR. DIAL TIME SWITCH WITH "SKIPPER®" SINGLE POLE SINGLE THROW (SPST)
40 AMP. RESISTIVE, INDUCTIVE, TUNGSTEN OR
1000 VA. PILOT DUTY - 120/208/240 VOLT AC;
2 HP (24 FLA) - 120V. AC; 5 HP (28 FLA) - 240 V. AC.



WIRING INSTRUCTIONS: To wire switch follow diagram above. Use solid or stranded COPPER only wire with insulation to suit installation. See gauge selection table for normal service applications. To make power connections remove 1/2 inch of insulation from wire ends. Insert bare ends of wire under the pressure plate of terminals. Use 3/16 or larger screwdriver to tighten terminal screws firmly. (25 lb-in minimum). REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY.

MINIMUM COPPER WIRE SIZE		MIN. INSUL- ATION			ON MAX. & D (HP) 3 Pi	OTOR	PRESSURE PLATE
(AWG)	15	EMP (°C)	120 V.	240 V.	206 V.	240 V.	TERMINAL SCREW MAKE SURE WIRE
12 10 8	20 30 40	60 60 75	1 2	274 3 5	N/A	N/A	INSULATION CLEARS PRESSURE PLATE

PROGRAMMING INSTRUCTIONS

 TO SET "ON" AND "OFF" TIMES: Hold trippers against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired, tighten tripper screws firmly. See caution below. For additional tripper pairs on CLOCK-DIAL order 156T1978A.

 TO SET TIME-OF-DAY: Pull CLOCK-DIAL outward. Turn in either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer. DO NOT MOVE POINTER.

3. TO SKIP OPERATION(S) ON SELECTED DAY(S): Insert SKIP-PING SCREW(S) in SKIPPER WHEEL for day(s) automatic operation(s) is/are NOT required. Tighten screws firmly. Move MANUAL LEVER to "OFF" and rotate SKIPPER WHEEL to locate correct day-of-week opposite DAY ARROW--"YESTERDAY" if ON/CUTOUT TRIPPER has not yet advanced wheel "TODAY" if it has.

OPERATING INSTRUCTIONS

 TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not effect next operation.

CAUTION: TO AVOID SLOW SWITCH ACTION FAILURE, DO NOT OPERATE SWITCH MANUALLY NOR PLACE A TRIPPER 4 HOURS PRIOR TO ON/CUTOUT TRIPPER SWITCHING.

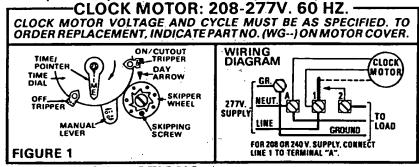
 IN CASE OF POWER FAILURE, reset CLOCK-DIAL to proper timeof-day. See programming instructions.

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SPAING GROVE, ILLINOIS 60081-9698
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MODEL: T172

24 HR. DIAL TIME SWITCH WITH "SKIPPER®" LISTED SINGLE POLE SINGLE THROW (SPST) 40 AMP. RESISTIVE, INDUCTIVE, TUNGSTEN OR 1000 VA. PILOT DUTY - 120-277 VOLT AC; 2 HP (24 FLA) - 120V. AC; 5 HP (28 FLA) - 240 V. AC.



WIRING INSTRUCTIONS: To wire switch follow diagram above. Use solid or stranded COPPER only wire with insulation to suit installation. See gauge selection table for normal service applications. To make power connections remove 1/2 inch of insulation from wire ends. Insert bare ends of wire under the pressure plate of terminals. Use 3/16 or larger screwdriver to tighten terminal screws firmly. (25 lb-in minimum). REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY.

MINIMUM	MAX. LOAD	MIN. INSUL-	76°C	INSULATI LOA	ON MAX. N D (HP)	NOTOR 1	PRESSURE PLATE
WIRE SIZE	(AMP)	ATION TEMP (C)	SINGL	E PHASE	3 Pt	IASE	I IOU
'~"''	1	(, ,	120 V.	240 V.	206 V.	240 V4	TERMINAL SCREW
14 12 10 8	15 20 30 40	60 60 60 75	V) 1 2	2 275 3 5	N/A	N/A "	MAKE SURE WIRE INSULATION CLEARS PRESSURE PLATE

PROGRAMMING INSTRUCTIONS

- 1. TO SET "ON" AND "OFF" TIMES: Hold trippers against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired, tighten tripper screws firmly. See caution below. For additional tripper pairs on CLOCK-DIAL order 156T1978A.

 2. TO SET TIME-OF-DAY: Pull CLOCK-DIAL outward. Turn in either
- direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer. DO NOT MOVE POINTER.
- 3 TO SKIP OPERATION(S) ON SELECTED DAY(S): Insert SKIP-PING SCREW(S) in SKIPPER WHEEL for day(s) automatic operation(s) is/are NOT required. Tighten screws firmly. Move MANUAL LEVER to "OFF" and rotate SKIPPER WHEEL to locate correct day-of-week opposite DAY ARROW--"YESTERDAY" if ON/CUTOUT TRIPPER has not yet advanced wheel "TODAY" if it has.

OPERATING INSTRUCTIONS

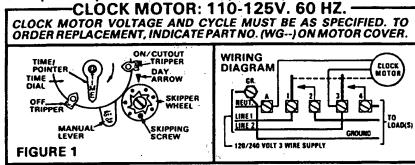
- TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not effect next operation.
 - CAUTION: TO AVOID SLOW SWITCH ACTION FAILURE, DO NOT OPERATE SWITCH MANUALLY NOR PLACE A TRIPPER 4 HOURS PRIOR TO ON/CUTOUT TRIPPER SWITCHING.
- IN CASE OF POWER FAILURE, reset CLOCK-DIAL to proper timeof-day. See programming instructions.

INTERMATIC INCORPORATED SPRING GROVE, ILLINOIS 60081-9698 MADE AND PRINTED IN U.S.A.

158T6801

MODEL: T173

24 HR. DIAL TIME SWITCH WITH "SKIPPER®" DOUBLE POLE SINGLE THROW (DPST) LISTED 40 AMP. RESISTIVE, INDUCTIVE, TUNGSTEN OR 8851 1000 VA. PILOT DUTY PER POLE-120/208/277 VOLT AC; 2 HP (24 FLA) - 120V. AC; 5 HP (28 FLA) - 240 V. AC.



WIRING INSTRUCTIONS: To wire switch follow diagram above. Use solid or stranded COPPER only wire with insulation to suit installation. See gauge selection table for normal service applications. To make power connections remove 1/2 inch of insulation from wire ends. Insert bare ends of wire under the pressure plate of terminals. Use 3/16 or larger screwdriver to tighten terminal screws firmly. (25 lb-in minimum). REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY.

MINIMUM		MIN. INSUL-	76°C		DN MAX. N	OTOR	PRESSURE PLATE
WIRE SIZE	(AMP)	ATION TEMP (C)	SINGL	E PHASE	3 P	(ASE	TERMINAL SCREW
L W401	1	CW (C)	120 V.	240 V.	208 V.	240 V.	TERMINAL SCREW
14 12 10 8	15 20 30 40	60 60 60 75	Ŋ 1 2	2 24 3 5	N/A	N/A	MAKE SURE WIRE INSULATION CLEARS PRESSURE PLATE

PROGRAMMING INSTRUCTIONS

1. TO SET "ON" AND "OFF" TIMES: Hold trippers against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired, tighten tripper screws firmly. See caution below. For additional tripper pairs on CLOCK-DIAL order 156T1978A.

2. TO SET TIME-OF-DAY: Pull CLOCK-DIAL outward. Turn in either

direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer. DO NOT MOVE POINTER.

3. TO SKIP OPERATION(S) ON SELECTED DAY(S): Insert SKIP-PING SCREW(S) in SKIPPER WHEEL for day(s) automatic operation(s) is/are NOT required. Tighten screws firmly. Move MANUAL LEVER to "OFF" and rotate SKIPPER WHEEL to locate correct day-of-week opposite DAY ARROW--"YESTERDAY" if ON/CUTOUT TRIPPER has not yet advanced wheel-"TODAY" if it has.

OPERATING INSTRUCTIONS

• TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not effect next operation.

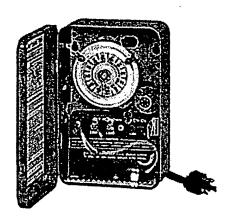
CAUTION: TO AVOID SLOW SWITCH ACTION FAILURE, DO NOT OPERATE SWITCH MANUALLY NOR PLACE A TRIPPER 4 HOURS PRIOR TO ON/CUTOUT TRIPPER SWITCHING

IN CASE OF POWER FAILURE, reset CLOCK-DIAL to proper timeof-day. See programming instructions.

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These portable cord connected time switches perform all the functions of the T100 and T170 series time switches plus they are completely portable eliminating the need for wiring. This time switch can be moved to new locations for different applications (indoor applications only). All models supplied complete with grounded cord set and receptacle installed.

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- ▶ Energy Controls
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Clock		
ModelSwitch Motor	Skippe	rSample
ModelSwitch Wolts Amps/Pole	² Wheel	Spec
60 Hz		

2171-SPS1

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Yes

Spec

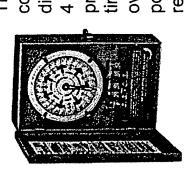
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rewinds itself. Only 1 hour is required to rewind the carry-over for each 2 hours of outage. The carry-over models are ideal in applications where true 7-day control is required and where power outages occur entailing times of 3-1/2 hours. The "BC" models with carry-over provide over of 16 hours minimum to maintain accurate load control ev power failure. When power resumes, the carry-over automatic provides true 7-day load control with minimum ON and minim commercial and residential applications. These time switches different "ON/OFF" program each day of the week. They also 4 pole single throw and 4 pole (2NO/2NC) switching. This seri These heavy-duty mechanical time switches are designed for costly resetting.

Model CarryoverSwitch	Carryove		Clock Motor Volts 60 Hz	Min. On Time	Min. Off Time	Clock Motor Min. Max. Motor On Off OperationsAmps/pole DiagramsSpec Volts Time Time per day	lod/sc	Wiring Diagrams	Sample sSpec	
T7401BC	Yes	T7401BC Yes 4PST 125 HoursHours	125	3.5 Hours	3.5 sHours	2	40	Wiring Signature Diagrams	Spec	
T7402BC Yes	Yes	4PST	208- 277	208- 3.5 3.5 277 HoursHour	208- 3.5 3.5 277 HoursHours	ĸ	40	Wiring Diagrams	Spec	
T7801BC	Yes	T7801BC Yes 2NO/2NC 125 3.5 3.5 HoursHours	C 125	3.5 Hours	3.5 Hours	3	40	Wiring Diagrams	Spec	
T7802BC	Yes	T7802BC Yes 2NO/2NC 208- 3.5 3.5 277 HoursHours	C 208-	3.5 Hours	3.5 sHours	т	40	Wiring Diagrams	Spec	
T7401B No	οN	4PST 125 3.5 3.5 HoursHours	125	3.5 Hours	3.5 Hours	3	40	Wiring Sing Sing Sing Sing Sing Sing Sing S	Spec	
T7407B No	Z	4PST	208-	3.5	208- 3.5 3.5	m	40	Wiring	Spec	

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Malibu Low Voltage Lighting

Diagrams

277 HoursHours

4PST

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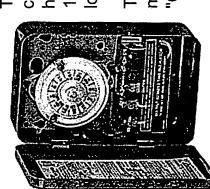
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	40 Spec		2NO/2NC 480		T7805B No		
					·		
	Diagrams See	rsHours	277 Hou	140 214	1,007.1		
	40 Wiring Spec	3.5 2	$N_0 = 3N_0/3N_0 = 208 - 3.5 = 3.5$		T7807B		
		Hours Hours	CZI ONIZ/ONIZ	1/8/11 ONI ZING	1/8015		
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Malibu Low Voltage Lighting ► Home Protection & Controls

Malibu Solar Lighting

Pool & Spa Controls



commercial and residential applications. This time switch has the highest horsepower ratings in the industry for loads up to 40 amps resistive from 120 to 480 volts providing direct 24 hour time switch control of most This heavy duty mechanical time switch is designed for industrial,

- Electronic Time Switches

Weatherproof Products

Surge Suppression

▶ Energy Controls

▶ Professional Lighting

► Mosquito Products

► Energy Controls

minimum ON/OFF times of 1 hour. All models are equipped with one This series provides 1 to 12 "ON/OFF" operations each day with "ON" and one "OFF" tripper.

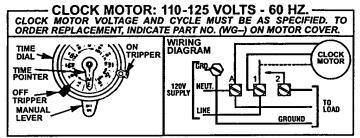
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Sample Spec	Spec	Spec	Spec	Spec	Spec	Spec
Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams
Clock Motor Amps/Pole HP InstructionWiring Sample Volts Amps/Pole RatingSheets DiagramsSpec 60 Hz	Manual L		Manual	Manual	Manual	Manual
HP Rating	%	2	2	5	7	2
mps/Pole	40	40	40	40	40	40
Clock Motor Volts	125	208- 277	125	208- 277	7.125	, 208- , 277
Switch	TIO1PT101PCD82 SPST 125	SPST	DPST	DPST	1NO/INC-125	$1NO/1NC_{277}^{208}$
l#w/ hru S	PCD82	,	T103 T103PT103PCD82 DPST	T104 T104PT104PCD82 DPST		-
Model Model # w/ Model # w/ See Thru See Caver	IPT101	2P	3PT1103	4PT104]		
Mode # w/ del Plasti Case	T101 T10	T102 T102P	03 T10.	04 T10	905	F106R
Moc	H	Ξ	H	Ξ	T105	[10
•	,		î.			

MODEL: T101 € LR3730 24 HOUR DIAL TIME SWITCH

SINGLE POLE SINGLE THROW (SPST) 40 AMP. RESISTIVE, INDUCTIVE, TUNGSTEN OR 1000 VA PILOT DUTY 120/208/240 VOLT AC; 2 HP (24 FLA) - 120V AC; 5 HP (28 FLA) - 240V AC



WIRING INSTRUCTIONS: To wire switch follow diagram above. Use solid or stranded COPPER only wire with insulation to suit installation. See gauge selection table for normal service applications. To make power connections remove 1/2 inch of insulation from wire ends. Insert bare ends of wire under the pressure plate of terminals. Use 3/16 or larger screwdriver to tighten terminal screws firmly. (25 lb-in minimum)...
REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY

,,_, _	~~			v			- TOTATINO OIT ELECTRICATION
MINIMUM COPPER	MAX. LOAD	MOM. DISUL-	7	S°C INSULAT LO	10M MAX. N ND (HP)	HOTOR	PRESSURE PLATE
WIRE SIZE (AWG)	(AMP)	ATION TEMP("C)	BING	LE PHASE	37	HASE	TEDMINAL CODER
(Arme)			120 V.	240 Y.	208 V.	240 Y.	TERMINAL SCREW
14 12 10 8	15 20 30 40	60 60 60 75	1/2 1 2	2 2 1/2 3 5	N/A	N/A	MAKE SURE WIRE INSULATION CLEARS PRESSURE PLATE

- PROGRAMMING INSTRUCTIONS
 1. TO SET "ON" AND "OFF" TIMES: Hold trippers against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired, tighten tripper screws firmly. For additional tripper pairs on CLOCK-DIAL order 156T1978A.
- 2. TO SET TIME-OF-DAY: Pull CLOCK-DIAL outward. Turn in either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer. DO NOT MOVE POINTER.

OPERATING INSTRUCTIONS

- TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not effect next operation.
- IN CASE OF POWER FAILURE, reset CLOCK-DIAL to proper time-of-day. See programming instructions.

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SPRING GROVE, ILLINOIS 60081-9698

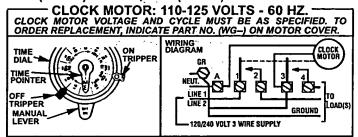
158TS10941

MODEL: T103 24 HOUR DIAL TIME SWITCH

(P. LR3730

DOUBLE POLE SINGLE THROW (DPST)

40 AMP. RESISTIVE, INDUCTIVE, TUNGSTEN OR 1000 VA PILOT DUTY EACH POLE 120/208.240 VOLT AC; 2 HP (24 FLA)-120V AC; 5 HP (28 FLA)-240V AC.



WIRING INSTRUCTIONS: To wire switch follow diagram above. Use solid or stranded COPPER only wire with insulation to suit installation. See gauge selection table for normal service applications. To make power connections remove 1/2 inch of insulation from wire ends. Insert bare ends of wire under the pressure plate of terminals. Use 3/16 or larger screwdriver to tighten terminal

screws firmly. (25 lb-in minimum).
REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY.

MINIMUM COPPER	MAX. LOAD	MIM. Insul-	75*	C INSULATIO LOAD		OR	[C=]	PRESSURE PLATE
WIRE SIZE (AWG)	(AMP)	ATION TEMP (*C)	SINGLE PHASE		3 PHASE			TERMINAL SCREW
			120 V.	240 V.	208 V.	240 Y.		MAYE CURE WIDE
14 12 10 8	15 20 30 40	60 60 60 75	1/2	2 2 1/2 3 5	N/A	N/A	0	MAKE SURE WIRE INSULATION CLEARS PRESSURE PLATE

- PROGRAMMING INSTRUCTIONS

 1. TO SET "ON" AND "OFF" TIMES: Hold trippers against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired, tighten tripper screws firmly. For additional tripper pairs on CLOCK-DIAL order 156T1978A.

 2. TO SET TIME-OF-DAY: Pull CLOCK-DIAL outward.
- either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer. DO NOT MOVE POINTER.

OPERATING INSTRUCTIONS

- TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not effect next operation.
- IN CASE OF POWER FAILURE, reset CLOCK-DIAL to proper time-of-day. See programming instructions.

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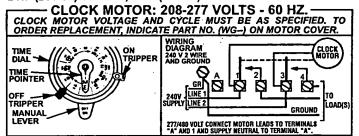
158TS10946

MODEL: T104 24 HOUR DIAL TIME SWITCH



DOUBLE POLE SINGLE THROW (DPST) 40 AMP. RESISTIVE EACH POLE 120-480 VOLT AC; 40 AMP.INDUCTIVE OR TUNGSTEN OR 1000 VA

PILOT DUTY EACH POLE 120V-277V AC; 2 HP (24 FLA)-120V AC; 5 HP (28 FLA)-240V AC.



WIRING INSTRUCTIONS: To wire switch follow diagram above. Use solid or stranded COPPER only wire with insulation to suit installation. See gauge selection table for normal service applications. To make power connections remove 1/2 inch of insulation from wire ends. Insert bare ends of wire under the pressure plate of terminals. Use 3/16 or larger screwdriver to tighten terminal screws firmly. (25 lb-in minimum).

REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY.

MINIMUM COPPER	MAX LOAD	ACM. EM SUL-	,	75°C INSULATION MAX. MOTOR . LOAD (HP)			PRESSURE PLATE
WIRE SIZE (AWG)	(AMP)	ATION TEMP("E)		LE PHASE	_	HASE	TERMINAL SCREW
	⊢		128 V.	240 V.	208 V.	240 Y.	
14 12 10 8	15 20 30 40	60 60 60 75	1/2	2 2 1/2 3 5	N/A	N/A	MAKE SURE WIRE INSULATION CLEARS PRESSURE PLATE

PROGRAMMING INSTRUCTIONS

- 1. TO SET "ON" AND "OFF" TIMES: Hold trippers against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired, tighten tripper screws firmly. For additional tripper pairs on CLOCK-DIAL order 156T1978A.
- 2. TO SET TIME-OF-DAY: Pull CLOCK-DIAL outward. Turn in either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer. DO NOT MOVE POINTER.

 OPERATING INSTRUCTIONS

- TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not effect next operation.
- IN CASE OF POWER FAILURE, reset CLOCK-DIAL to proper time-of-day. See programming instructions.

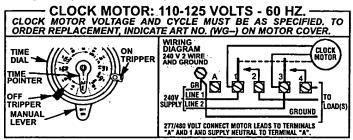
INTERMATIC INCORPORATED SPRING GROVE, ILLINOIS 60081-9698

158TS10948

LR3730

MODEL: T105 24 HOUR DIAL TIME SWITCH

ONE NORMALLY OPEN - ONE NORMALLY CLOSED CONTACTS MAY BE WIRED AS SINGLE POLE DOUBLE THROW 40 AMP. RESISTIVE, INDUCTIVE, TUNGSTEN OR 1000 VA. PILOT DUTY PER POLE - 120/208/240VOLT AC; 2 HP (24 FLA) - 120V AC; 5 HP (28 FLA) - 240V AC.



WIRING INSTRUCTIONS: To wire switch follow diagram above. To wire as SINGLE POLE NORMALLY CLOSED, move clock motor lead from terminal 3 to 1, and connect LINE to 1, LOAD to 1. To wire as SINGLE POLE DOUBLE THROW, install jumper (the same gauge as Line wire) between 2 and 3 and connect LINE to 2, LOADS to 1 and 4. NEUTRAL connection always as shown. Use COPPER wire only. For larger screwdriver, tighten terminal screws firmly (25 lb-in minimum).

REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY.

١	MIKIMUM COPPER WIRE SIZE	MAX. LOAD (AMP)	MEM. IN SUL- Atron			AD (HP)	7	PRESSURE PLATE
	(AMC)	, and	TEMP("C)	\$ING 120 V.	LE PHASE _240 V.	3 P	HASE 240 V.	TERMINAL SCREW
-	14 12 10 8	15 20 30 40	60 60 60 75	1/2	2 2 1/2 3 5	N/A	N/A	MAKE SURE WIRE INSULATION CLEARS PRESSURE PLATE

PROGRAMMING INSTRUCTIONS

- 1. TO SET "ON" AND "OFF" TIMES: Hold trippers against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired, tighten tripper screws firmly. For additional tripper pairs on CLOCK-DIAL order 156T1978A.

 2. TO SET TIME-OF-DAY: Pull CLOCK-DIAL outward. Turn in
- either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer. DO NOT MOVE POINTER.

- OPERATING INSTRUCTIONS
 TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not effect next operation.

 IN CASE OF POWER FAILURE, reset CLOCK-DIAL to
- proper time-of-day. See programming instructions.

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158TS10950 SPRING GROVE: ILLINOIS 60081-9698



These timers provide repeat cycling for applications which require as short as 2-1/2 second "ON" times. Models provide for complete dial cycle every 5, 10 or 30 minutes and every 1 or 4 hours with tripper actuating times of 2-1/2, 5, 15, 30 or 120 seconds duration, respectively. Ten combination "ON/OFF" trippers supplied with each switch. Dials on all models have 120

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C Model Switch	lock lotorD olts C	ial A ycle _T	ripper ctuating/ ime	\mps _S	nstruction Sheets	Wiring S DiagramsS	Sample Spec
C8815 SPDT	125	10 Min.	5 Sec.	20	Manual	Wiring Diagrams Wiring	Spec
(60)) 012	44.7	30 Min.	15 Sec.	20	Manual	Diagrams Wiring	Spec Spec
C8865 SPDT					Manual Manual	Diagrams Wiring	Spec
C8845 SPDT				2.075		Wiring	E. S. Calleball

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MODEL: C8815 NTERMATIC®



REPEAT CYCLE TIMER

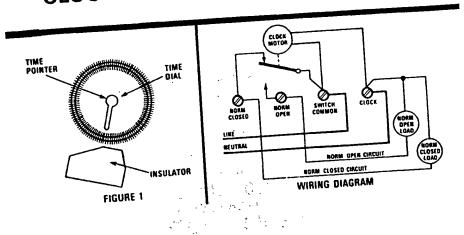


DIAL CYCLE: 10 MINUTES ACTUATING TIME - EACH TRIPPER: 5 SECONDS

SINGLE POLE DOUBLE THROW

SWITCH RATING: 20 AMP. 125-480 VOLTS A.C, 1/2HP-125V, 1HP-250V.

CLOCK MOTOR: 125 VOLTS - 60 HZ.



This Time Switch can be wired to control two circuits as single pole double throw, or to control one circuit as single pole single throw, either normally closed or normally open. To wire Time Switch as desired, see wiring diagram above.

- 1. SET PROGRAM TIME: Place tripper(s) into dial at desired time(s) PROGRAMMING INSTRUCTIONS
 - ON TIME: First tripper turns on the load for 6-8 seconds. Each operation(s) is/are required. additional tripper will lengthen the on time by 5 seconds.
 - OFF TIME: First tripper omitted turns off the load for 2-4 seconds. Each additional space will lengthen the off time by 5 seconds.
- 2. TO SET DIAL, Turn dial in CLOCKWISE direction only. The "TIME POINTER" indicates position at which switch action takes place.

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out. IN CASE OF POWER FAILURE, Reset dial, See Step (2) of programming

INTERMATIC INCORPORATED instructions.

SPRING GROVE, ILLINOIS 60081

MADE AND PRINTED IN U.S.A.

158T6272

NTERMATIC® TIME CONTROLS

MODEL: C8835



REPEAT CYCLE TIMER

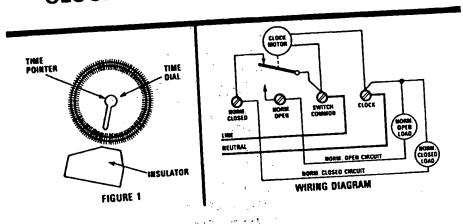


DIAL CYCLE: 30 MINUTES ACTUATING TIME - EACH TRIPPER 15 SECONDS

SINGLE POLE DOUBLE THROW

SWITCH RATING: 20 AMP. 125-480 VOLTS A.C.1/2 HP-125V, 1HP-50V.

CLOCK MOTOR: 125 VOLTS - 60 HZ.



This Time Switch can be wired to control two circuits as single pole WIRING INSTRUCTIONS: double throw, or to control one circuit as single pole single throw,either normally closed or normally open. To wire Time Switch as desired, see wiring diagram above.

- PROGRAMMING INSTRUCTIONS 1. SET PROGRAM TIME: Place tripper(s) into dial at desired time(s)
 - operation(s) is/are required. ON TIME: First tripper turns on the load for 16-20 seconds. Each additional tripper will lengthen the on time by 15 seconds.
 - OFF TIME: First tripper omitted turns off the load for 10-14 seconds. Each additional space will lengthen the off time by 15
- 2. TO SET DIAL, Turn dial in CLOCKWISE direction only. The 'TIME POINTER" indicates position at which switch action takes place.

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out.

IN CASE OF POWER FAILURE, Reset dial, See Step (2) of programming instructions.

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SPRING GROVE, ILLINOIS 60081

MADE AND PRINTED IN U.S.A.

158T6273

MODEL: C8865 NTERMATIC® TIME CONTROLS



REPEAT CYCLE TIMER

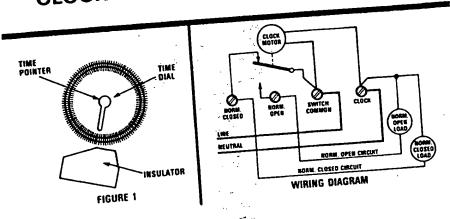


DIAL CYCLE: 1 HOUR ACTUATING TIME - EACH TRIPPER: 30 SECONDS

SINGLE POLE DOUBLE THROW

SWITCH RATING: 20 AMP. 125-480 VOLTS A.C. 1/2HP-125V, 1 HP-250V.

CLOCK MOTOR: 125 VOLTS - 60 HZ.



This Time Switch can be wired to control two circuits as single pole double throw, or to control one circuit as single pole single throw, either normally closed or normally open. To wire Time Switch as deseired, see wiring diagram above.

- 1. SET PROGRAM TIME: Place tripper(s) into dial at desired time(s) PROGRAMMING INSTRUCTIONS ON TIME: First tripper turns on the load for 32-40 seconds. Each additional tripper will lengthen the on time by 30 seconds.
 - OFF TIME: First tripper omitted turns off the load for 20-28 seconds. Each additional space will lengthen the off time by 30
- 2. TO SET DIAL, Turn dial in CLOCKWISE direction only. The 'TIME POINTER" indicates position at which switch action takes place.

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out.

IN CASE OF POWER FAILURE, Reset dial, See Step (2) of programming

instructions.

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SPRING GROVE, ILLINOIS 60081

158T6286



MODEL: C8845



REPEAT CYCLE TIMER

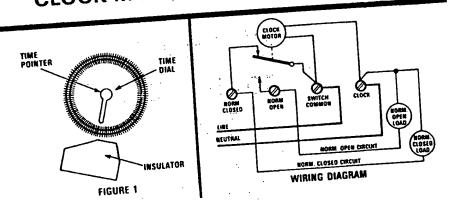


DIAL CYCLE: 4 HOURS ACTUATING TIME - EACH TRIPPER: 2 MINUTES

SINGLE POLE DOUBLE THROW

SWITCH RATING: 20 AMP. 125-480 VOLTS A.C, 1/2 HP-125V., 1 HP-250V.

CLOCK MOTOR: 125 VOLTS - 60 HZ.



This Time Switch can be wired to control two circuits as single pole double throw, or to control one circuit as single pole single throw,either normally closed or normally open. To wire Time Switch as desired, see wiring diagram above.

- 1. SET PROGRAM TIME: Place tripper(s) into dial at desired time(s) PROGRAMMING INSTRUCTION
 - ON TIME: First tripper turns on the load for 130-160 seconds. operation(s) is/are required. Each additional tripper will lengthen the on time by 120 seconds.
 - OFF TIME: First tripper omitted turns off the load for 80-110 seconds. Each additional space will lengthen the off time by 120
- 2. TO SET DIAL, Turn dial in CLOCKWISE direction only. The 'TIME POINTER" indicates position at which switch action takes place.

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out. IN CASE OF POWER FAILURE, Reset dial. See Step (2) of programming instructions.

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SPRING GROVE, ILLINOIS 60081

158T6288

INTERMATIC® MODEL: C8866



REPEAT CYCLE TIMER

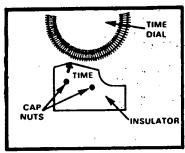


DIAL CYCLE: 1 HOUR ACTUATING TIME - EACH TRIPPER: 30 SECONDS

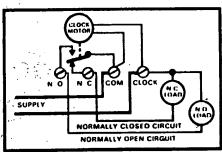
SINGLE POLE DOUBLE THROW

SWITCH RATING:20 AMP.125-480 VOLTS A.C, 1/2HP-125V.1HP-250V.

CLOCK MOTOR: 208-277 VOLTS, 60 HZ.







WIRING DIAGRAM

WIRING INSTRUCTIONS:

This Time Switch can be wired to control two circuits as single pole double throw, or to control one circuit as single pole single throw. Either normally open (NO) or normally closed. (NC). To wire Time Switch as desired, see wiring diagram above.

PROGRAMMING INSTRUCTIONS

- SET PROGRAM TIME: Place tripper(s) into dial at desired time(s) operation(s) is/are required.
 - ON TIME: First tripper turns on the load for 32-40 seconds.
 Each additional tripper will lengthen the on time by 30 seconds.
 - OFF TIME: First tripper omitted turns off the load for 20-28 seconds. Each additional space will lengthen the off time by 30 seconds.
- TO SET DIAL, Turn dial in CLOCKWISE direction only. The "TIME" arrow on insulator indicates point at which switch action takes place.

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out. IN CASE OF POWER FAILURE, Reset dial, See Step (2) of programming instructions.

INTERMATIC INCORPORATED SPRING GROVE, ILLINOIS 60081

158T4312





will remain ON during the weekend when the skipper is set to do so. Three sets of ON/OFF trippers (and three skipper screws for model WH80) are supplied.

Model Switch Motor Watts Switch Amps/pole Sheets DiagramsSpec

The WH40 and WH80 provides a convenient external
override switch. Utilities in some areas of the country offer
two electric rates for residential or commercial customers.
One rate has the regular daytime electrical rate, the other is
"off peak" rate. The off peak rate provides customers with
lower-priced electricity during the nighttime and weekend
periods. The special construction of the WH80, incorporating
a skipper function, enables the customer to have all the hot
water required, especially on weekends when the time
switch permits 24 hour a day operation automatically. Since
the WH80 has normally closed contacts, the water heater

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00112		
T104- DPST 208-10000	No. 40	Wiring
20 240		Diagrams Diagrams
WH40 DPST 250 10000	Yes 40	Manual Wiring Spec
WH21		Manual

Clock

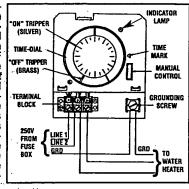
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WH21

5 - LR3730 ELECTRIC WATER HEATER TIME SWITCH SINGLE POLE SINGLE THROW (SPST) 25 AMP (6250 WATT) RESISTIVE, 1500 WAT TUNGSTEN, 2 H.P. (20 FLA/80 LRA) - 208 OR 250 VOLT, 60 HZ

CAUTION: THIS SINGLE POLE TIMER SWITCH BREAKS ONLY ONE (HOT) LINE CONNECTED TO THE WATER HEATER. THE OTHER (HOT) LINE IS UNINTERRUPTED FOR YOUR SAFETY, DISCONNECT ALL ELECTRIC POWER AT THE MAIN PANEL BEFORE SERVICING THIS SWITCH OR THE WATER HEATER IT IS CONNECTED TO.

This time switch will repeat a pre-In time switch will repeat a pre-set schedule daily except when the EXTERNAL MANUAI PUSH-BUTTON is used. This manual button permits the user to turn the water heater ON and OFF ahead of the schedule. The Time anead of the schedule. The Time Switch will resume the preset program by the next scheduled ON or OFF operation. The diagram on the right shows the mechanism and wiring of this time switch. The TIME-MARK is used to the switch. used to line up the correct time-of-day on the TIME-DIAL. The ON and OFF TRIPPERS turn the water heater ON and OFF at the times indicated by their respec-tive position on the TIME-DIAL.



- **TÖ SET PROGRAM**
- 1. Grasp time-dial firmly, PULL and remove time-dial completely from
- 2. Remove all ON trippers (silver) and OFF trippers (brass). Use pencil or
- paper clip if necessary.
 Insert OFF trippers (brass) in slots for desired OFF times, but NOT CLOSER than 2 hours apart.
- Loser ON trippers (silver) in slots for desired ON times, but NOT CLOSER than 2 hours apart. ON and OFF trippers may be spaced 1/2 hour apart from each other.
 Replace time dial. PUSH IN FIRMLY. If any trippers are near the time-
- mark, rotate time-dial to avoid interference with mechanism inside.

 6. Turn time-dial CLOCKWISE one or more revolutions until correct time-
- of-day is opposite time-mark.

 TO STOP AUTOMATIC OPERATION (But without stopping timer),
 PULL outward on time-dial until it clicks.

 TO RESUME AUTOMATIC OPERATION, PUSH inward on dial.
- AFTER POWER FAILURE (or if water heater was disconnected at main panel) time-dial must be reset to correct time-of-day.
 TO SECURE EXTRA TRIPPERS ORDER No. 156T1945A FOR A SET

OF TWO (2) ON AND TWO (2) OFF TRIPPERS. INTERMATIC INCORPORATED, SPRING GROVE, IL 60081-9698

WH40 ELECTRIC WATER HEATER TIME SWITCH DOUBLE POLE, 10,000 WATTS (40 AMP) MAX., 250 VOLT - 60 HZ.



MANUAL LEVER

NEUTRAL (WHITE) IF PRESENT

GROUND IGREEN OR BARE)

This Time Switch will repeat a preset schedule daily, except when the EXTERNAL MANUAL LEVER is used. This manual lever permits the user to turn the water heater ON and OFF ahead of the schedule. The Time Switch will resume the preset program by the next scheduled ON or OFF operation. NOTE: The manual lever is inoperative for 15 minutes immediately offer the cutterful state. immediately after the automatic operation.

The diagram on the right shows the mechanism and wiring of this Time Switch. The TIME POINTER is used to line up the correct time-of-day on the CLOCK-DIAL. The ON and OFF TRIPPERS turn water heater ON and OFF at the times indicated by their respective

position on the CLOCK-DIAL. TO SET PROGRAM...First, mount silver finished (ON) trippers at times you wish water heater to start

NOTE: CLOCK MOTOR LEADS ARE PREWIRED TO TERMINALS 1 & 3 operating. Place black (OFF) trippers at times you want to turn water heater OFF. Fasten trippers to dial

by pushing them against the edge of the clock dial, then turning screws TIGHT with fingers. Second, PULL clock dial out (toward you) and turn in either direction until correct time-of day (the time now, when switch is being put into operation) is directly under the time pointer. Do not move pointer.

GROUND SCREW.

NEUT

LINE 1

LINE 2

120 240V FROM FUSE BOX

Third, close Time Switch cover. Make sure it is latched and locked, if needed.

AFTER POWER FAILURE (or if water heater was disconnected at the main panel), you must reset clock dial to the proper time-of day.

TO SUSPEND AUTOMATIC OPERATION - Remove trippers from dial. Set manual lever as desired.

CAUTION: Always disconnect power at main panel before servicing this Switch or the water heater.

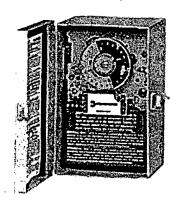
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SPRING GROVE, ILLINOIS 60081-9698

PRINTED IN U.S.A.

15817697

NTERMATIC:



This time switch is self adjusting for seasonal changes to provide energy saving control of outdoor lighting. One setting provides you lights ON at sunset, lights OFF at sunrise or between 8:30 P.M. and 2:30 A.M. all year long. The astronomic dial; automatically adjusts itself as the days grow shorter or longer. A skipper provides lighting control to be omitted on selected day(s) of the week. The carry-over is designed to maintain preset schedule during power outages for a minimum of 16 hours. When power resumes, the carry-over automatically rewinds itself. Only 1 hour is required to rewind the carry-over for each 2 hours of outage.

These switches are ideal in areas where power outages occur and entail costly resetting. The 3PST switch configuration provides for control of 3-phase lighting. Three skipper screws are furnished. These switches come standard in a rainproof NEMA 3R enclosure for outdoor installations.

Clock
Motor Wiring Sample
Model Switch Volts Amps/pole DiagramsSpec
60 Hz

V45471R 3PST 125

40

Wiring Diagrams

<u>Spec</u>

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NTERMATIC



Skipper models for omitting operation on selected day(s) of the "ON" tripper), one "OFF" tripper and three skipper screws. The power resumes. Only one hour is required to rewind the carry-These models provide the same features as the T170 Series hours of carry-over for maintaining preset schedules during power failures. The carry-over automatically rewinds when week. The T170CR series also provides a minimum of 16 equipped with one CUTOUT tripper (which also serves as over for each two hours of power outage. All models are 4PST models are ideal for 3-phase load control

Sample SSpec	Spec	Spec	Spec	Spec	Spec	Spec	Spec
nWiring Samp DiagramsSpec	Wiring. Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams	Wiring Diagrams
Amps/Pole RatingSheets Diagrar	<u>Manual</u>						
HP Pole Ratin	2	ς.	7	2	7	2	2
	5 40	3- 40	5 40	3- 40 7 40	5 40	5 40	5 40
Clock Motor Volts 60 Hz		208-		, 208- 277	** 12.	125	* * *
Switch	SPST	SPST	DPST	DPST	INO/IN	4PST	NC/ONE
Model	T171CR	T172CR	T173CR	T174CR	T175CR 1NO/1NC** 125	T1471BCR	T118711BCR2N0/2NC** 125
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7 Technical Support

Intermatic Energy Controls - Mechanical Time Switches - 24 Hour, 40 Amp with 7 Day Skipper and Carryover

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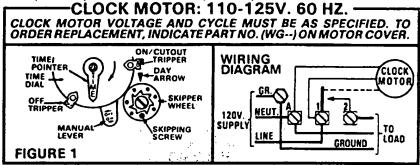
MODEL: T171CR

24 HR DIAL TIME SWITCH WITH "SKIPPER®" AND SPRING-WOUND CARRY-OVER MOTOR



40 AMP. RESISTIVE, INDUCTIVE, TUNGSTEN OR 1000 VA. PILOT DUTY - 120/208/240 VOLT AC; 2 HP (24 FLA) - 120V. AC; 5 HP (28 FLA) - 240 V. AC.





WIRING INSTRUCTIONS: To wire switch follow diagram above. Use solid or stranded COPPER only wire with insulation to suit installation. See gauge selection table for normal service applications. To make power connections remove 1/2 inch of insulation from wire ends. Insert bare ends of wire under the pressure plate of terminals. Use 3/16 or larger screwdriver to tighten terminal screws firmly. (25 lb-in minimum). REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY.

MINIMUM COPPER	MAX. LOAD	MIN. INSUL-	764C	76°C INSULATION MAX. MOTOR			PRESSURE PLATE
WIRE SIZE	(AMP)	ATION EMP (C)	SINGL	E PHASE_	3 PHASE		TERMINAL SCREW
			120 V.	240 V.	208 V.	240 V.	I EUMINAL SCHEM
14 12 10 8	15 20 30 40	60 60 75	¥1 2	2 2 3 6	· N/A	N/A	MAKE SURE WIRE INSULATION CLEARS PRESSURE PLATE

PROGRAMMING INSTRUCTIONS

1. TO SET "ON" AND "OFF" TIMES: Hold trippers against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired, tighten tripper screws firmly. See caution below. For additional tripper pairs on CLOCK-DIAL order 156T1978A.

2. TO SET TIME-OF-DAY: Pull CLOCK-DIAL outward. Turn in either

direction and align the exact time-of-day on the CLOCK-DIAL (the

direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer. DO NOT MOVE POINTER.

3. TO SKIP OPERATION(S) ON SELECTED DAY(S): Insert SKIP-PING SCREW(S) in SKIPPER WHEEL for day(s) automatic operation(s) is/are NOT required. Tighten screws firmly. Move MANUAL LEVER to "OFF" and rotate SKIPPER WHEEL to locate correct day-of-week opposite DAY ARROW--"YESTERDAY" if ON/CUTOUT TRIPPER has not yet advanced wheel "TODAY" if it has.

OPERATING INSTRUCTIONS

• TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below

TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not effect

CAUTION: TO AVOID SLOW SWITCH ACTION FAILURE, DO NOT OPERATE SWITCH MANUALLY NOR PLACE A TRIPPER 4 HOURS PRIOR TO ON/CUTOUT TRIPPER SWITCHING.

IN CASE OF POWER FAILURE, reset CLOCK-DIAL to proper time-

IN CASE OF POWER FAILURE, 1990.

of-day. See programming instructions.

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158T6837

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The T1900 Supervisor Series provides up to 96 operations (48 ON/48 OFE) every 24 hours. This series provides operations with minimum ON/OFF times of 15 minutes. Trippers slide in and out of dial for fast accurate setting. The skipper models provide for operations to be omitted on selected day(s) of the week. Models with carryover provide a minimum of 16 hours of carry-over to maintain preset schedules within ± 2% accuracy during power failures. The carry-over automatically rewinds when power resumes. Only one hour is required to rewind the carry-over for each two hours of power outage. These switches are ideal in areas where shorter duration ON/OFF times are required and power outages occur entailing costly resetting.

Model	Switch				Skippe Wheel	rinstruction Sheets	nWiring Diagrams	Sample Spec
T1905	SPDT	125	No -	20	No	Manual	Wiring Diagrams	<u>Spec</u>
T1906	SPDT	208- 277	No	20	No	<u>Manual</u>	Wiring Diagrams	Spec
T1975	SPDT	125	No	20	Yes	<u>Manual</u>	Wiring Diagrams	Spec
T1976	SPDT	208- 277	No	20	Yes	<u>Manual</u>	Wiring Diagrams	Spec
T1975E	SPDT	480	No	20	Yes	<u>Manual</u>	Wiring Diagrams	Spec

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INTERMATIC® TIME CONTROLS

Model T-1905

PROGRAM TIME SWITCH

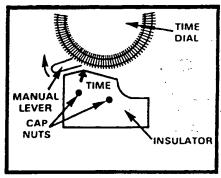


FOR UP TO 48 TIMING OPERATIONS ON 24 HOUR SCHEDULE SINGLE POLE DOUBLE THROW



SWITCH RATING:20 AMP.125-480 VOLTS A.C, 1/4P-125V,1HP-250V.

CLOCK MOTOR: 125 VOLTS - 60 HZ.



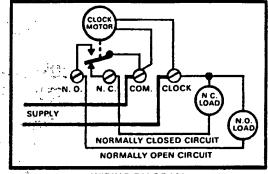


FIG. 1

WIRING DIAGRAM

WIRING INSTRUCTIONS

This Time Switch can be wired to control two circuits as Single Pole Double Throw, or to control one circuit as Single Pole Single Throw. Either normally open (NO) or normally closed (NC). To wire switch see wiring diagram above.

PROGRAMMING INSTRUCTIONS

- 1. TO PROGRAM TIME SWITCH, Depress tripper(s) into dial at desired time(s) operation(s) is/are required.
 - ON TIME: First tripper turns on the load for 16-20 minutes. Each additional tripper will lengthen the on time by 15 minutes.
 - OFF TIME: First tripper in raised position turns off the load for 10-14 minutes. Each additional space will lengthen the off time by 15 minutes.
- 2. **SET TIME-OF-DAY**; Turn dial in clockwise direction only and align the exact time-of-day on dial (the time when switch is being put into operation) to the "TIME" arrow on insulator.

OPERATING INSTRUCTIONS

TO CONTROL LOADS MANUALLY, Move manual lever (See Figure 1) up. This lever will close normally open circuit and open the normally closed circuit. To return to automatic control, move lever back to its original position.

IN CASE OF POWER FAILURE, reset dial. See step (2) of programming instructions.

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out.

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158T4201

Model T-1906

PROGRAM TIME SWITCH

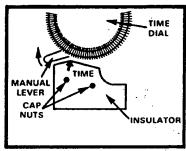


FOR UP TO 48 TIMING OPERATIONS ON 24 HOUR SCHEDULE SINGLE POLE DOUBLE THROW



SWITCH RATING:20 AMP.125-480 VOLTS A.C, 1/4P-125V,1HP-250V.

CLOCK MOTOR: 208-277 VOLTS - 60 HZ.



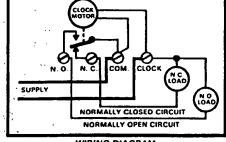


FIG. 1

WIRING DIAGRAM

WIRING INSTRUCTIONS

This Time Switch can be wired to control two circuits as Single Pole Double Throw, or to control one circuit as Single Pole Single Throw. Either normally open (NO) or normally closed (NC). To wire switch see wiring diagram above.

PROGRAMMING INSTRUCTIONS

- 1. TO PROGRAM TIME SWITCH, Depress tripper(s) into dial at desired time(s) operation(s) is/are required.
 - ON TIME: First tripper turns on the load for 16-20 minutes. Each additional tripper will lengthen the on time by 15 minutes.
 - OFF TIME: First tripper in raised position turns off the load for 10-14 minutes. Each additional space will lengthen the off time by 15 minutes.
- 2. SET TIME-OF-DAY; Turn dial in clockwise direction only and aligh the exact time-of-day on dial (the time when switch is being put into operation) to the "TIME" arrow on insulator.

OPERATING INSTRUCTIONS

TO CONTROL LOADS MANUALLY, Move manual lever (See Figure 1) up. This lever will close normally open circuit and open the normally closed circuit. To return to automatic control, move lever back to its original position.

IN CASE OF POWER FAILURE, reset dial. See step (2) of programming instructions.

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out.

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INTERMATIC®

Model **T-1975**

PROGRAM TIME SWITCH WITH "SKIPPER"

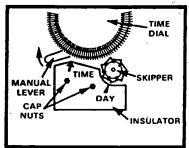


FOR UP TO 48 TIMING OPERATIONS ON 24 HOUR SCHEDULE SINGLE POLE DOUBLE THROW



SWITCH RATING:20 AMP.125-480 VOLTS A.C. 1/2HP-125V,1HP-250V.

CLOCK MOTOR: 125 VOLTS - 60 HZ.



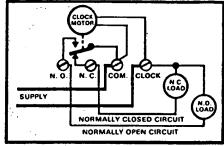


FIG. 1

WIRING DIAGRAM

WIRING INSTRUCTIONS

This Time Switch can be wired to control two circuits as Single Pole Double Throw, or to control one circuit as Single Pole Single Throw. Either normally open (NO) or normally closed (NC). To wire Time Switch as desired, see wiring diagram above.

PROGRAMMING INSTRUCTIONS

SET PROGRAM TIME: Depress tripper(s) into dial at desired time(s) operation(s) is/are required.

ON TIME: First tripper turns on the load for 16-20 minutes. Each additional tripper will lengthen the on time by 15 minutes: If skipping of selected days is desired, the skipper tripper (silver color) should be used to initiate the first operation of the daily program, provided that there is at least 3 hours between the last operation of the previous day and the first operation of the present day.

OFF TIME: First tripper in raised position turns off the load for 10-14 minutes. Each additional space will lengthen the off time by 15 minutes.

- SET TIME OF DAY: Turn dial in clockwise direction only and align the exact time of day on dial (the time when switch is being put into operation) to the time arrow on insulator.
- CHECK SKIPPER WHEEL If switch is to function seven days a week, pull all
 pins, in skipper wheel up to "OUT" position. Otherwise depress pin(s) in skipper wheel for day(s) automatic operation is not required.
 - If, after the dial is set to the correct time of day, and the skipper tripper (silver color) has not yet passed the skipper wheel, turn wheel counter clockwise so that the previous day is opposite the "DAY" arrow.
 - If the skipper tripper has already passed the skipper wheel, set the correct day opposite the "DAY" arrow.

OPERATING INSTRUCTIONS

To control load(s) manually, move manual lever (See Figure 1)up. This lever will close normally open circuit and open the normally closed circuit, provided pin in skipper wheel opposite "DAY" arrow, is in "OUT" position. To return to automatic control, move lever back to its original position.

IN CASE OF POWER FAILURE, Reset dial, see steps 2 and 3 of programming instructions

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out.

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NTERMATIC® TIME CONTROLS

Model **T-1976**

PROGRAM TIME SWITCH WITH "SKIPPER"

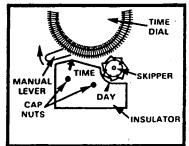
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FOR UP TO 48 TIMING OPERATIONS **ON 24 HOUR SCHEDULE**

SINGLE POLE DOUBLE THROW

SWITCH RATING: 20 AMP. 125-480 VOLTS A.C., 1/24-125V,1HP-250V.

CLOCK MOTOR: 208-277 VOLTS - 60 HZ



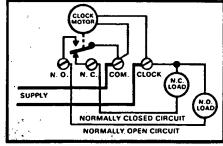


FIG. 1

WIRING DIAGRAM

WIRING INSTRUCTIONS

This Time Switch can be wired to control two circuits as Single Pole Double Throw, or to control one circuit as Single Pole Single Throw. Either normally open (NO) or normally closed (NC). To wire Time Switch as desired, see wiring diagram above.

PROGRAMMING INSTRUCTIONS

1. SET PROGRAM TIME: Depress tripper(s) into dial at desired time(s) operation(s) is/are required: -

ON TIME: First tripper turns on the load for 16-20 minutes. Each additional tripper will lengthen the on time by 15 minutes. If skipping of selected days is desired, the skipper tripper (silver color) should be used to initiate the first operation of the daily program, provided that there is at least 3 hours between the last operation of the previous day and the first operation of the present

OFF TIME: First tripper in raised position turns off the load for 10-14 minutes. Each additional space will lengthen the off time by 15 minutes.

2. SET TIME OF DAY: Turn dial in clockwise direction only and align the exact time of day on dial (the time when switch is being put into operation) to the time arrow on insulator.

3. CHECK SKIPPER WHEEL If switch is to function seven days a week, pull all pins, in skipper wheel up to "OUT" position. Otherwise depress pin(s) in skipper wheel for day(s) automatic operation is not required.

 If after the dial is set to the correct time of day, and the skipper tripper (silver color) has not yet passed the skipper wheel, turn wheel counter clockwise so that the previous day is opposite the "DAY" arrow.

If the skipper tripper has already passed the skipper wheel, set the correct day opposite the "DAY" arrow.

OPERATING INSTRUCTIONS

To control load(s) manually, move manual lever (See Figure 1)up. This lever will close normally open circuit and open the normally closed circuit, provided pin in skipper wheel opposite "DAY" arrow, is in "OUT" position. To return to automatic control, move lever back to its original position.

IN CASE OF POWER FAILURE, Reset dial, see steps 2 and 3 of programming

instructions.

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out.

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NTERMATIC " TIME CONTROLS Model T-1975E

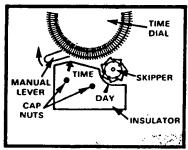
PROGRAM TIME SWITCH WITH "SKIPPER".



FOR UP TO 48 TIMING OPERATIONS ON 24 HOUR SCHEDULE

SINGLE POLE DOUBLE THROW SWITCH RATING: 20 AMP, 125-480 VOLTS A.C, 1/2HP-125V,1HP-250V.

CLOCK MOTOR: 480 VOLTS - 60 HZ.



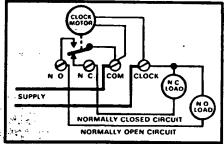


FIG. 1

WIRING DIAGRAM

WIRING INSTRUCTIONS

This Time Switch can be wired to control two circuits as Single Pole Double Throw, or to control one circuit as Single Pole Single Throw. Either normally open (NO) or normally closed (NC). To wire Time Switch as desired, see wiring diagram above.

PROGRAMMING INSTRUCTIONS

- 1. SET PROGRAM TIME: Depress tripper(s) into dial at desired time(s) operation(s) is/are required.
 - ON TIME: First tripper turns on the load for 16-20 minutes, Each additional tripper will lengthen the on time by 15 minutes. If skipping of selected days is desired, the skipper tripper (silver color) should be used to initiate the first operation of the daily program, provided that there is at least 3 hours between the last operation of the previous day and the first operation of the present
 - OFF TIME: First tripper in raised position turns off the load for 10-14 minutes. Each additional space will lengthen the off time by 15 minutes.
- 2. SET TIME OF DAY: Turn dial in clockwise direction only and align the exact time of day on dial (the time when switch is being put into operation) to the time arrow on insulatory:
- 3. CHECK SKIPPER WHEEL If switch is to function seven days a week, pull all pins, in skipper wheel up to "OUT" position. Otherwise depress pin(s) in skipper wheel for day(s) automatic operation is not required.
 - If, after the dial is set to the correct time of day, and the skipper tripper (silver color) has not yet passed the skipper wheel, turn wheel counter clockwise so that the previous day is opposite the "DAY" arrow.
 - If the skipper tripper has already passed the skipper wheel, set the correct day opposite the "DAY" arrow.

OPERATING INSTRUCTIONS

To control load(s) manually, move manual lever (See Figure 1)up. This lever will close normally open circuit and open the normally closed circuit, provided pin in skipper wheel opposite "DAY" arrow, is in "OUT" position. To return to automatic control, move lever back to its original position.

IN CASE OF POWER FAILURE, Reset dial, see steps 2 and 3 of programming instructions.

TO REMOVE MECHANISM FROM CASE, Disconnect electricity and all wiring. Depress retainer spring at upper left, or unscrew mounting screws, then grasp dial and pull mechanism out.

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The T2000 Series provides up to 84 (42 "ON/OFF") operations each week. Minimum "ON/OFF" times for this series are 2 hours each day.

each providing up to 6 "ON/OFF" operations

Clock Motor Amps/pole DiagramsSpec Sample Model CarryoverSwitch 4444 and 567 and 574

T2005	No	SPDT 125	20	Wiring Diagrams	Spec
T2006	No	SPDT ²⁰⁸ -	20	Wiring Diagrams	Spec

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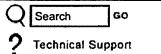
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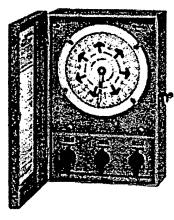


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T50000 Series 7-Day Dial with Carry-Over T51111BC

This series provides photo control initiated/time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carry-over. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a preset time. The spring wound carryinformation click over provides a carry-over of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carry-over automatically rewinds itself. Only 1 hour is required to rewind the carryover for each 2 hours of outage.

> The three models provide control of 1, 2 or 3 circuits. A light level adjustment is provided on the photo control. All models have single pole double throw switches and manual circuit by-pass switches. Unit is designed to control the contactor control circuit only. It is not recommended for direct switching of tungsten, mercury vapor or similar

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T50000 Series 7-Day Dial with Carry-Over T51111BC

This series provides photo control initiated/time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carry-over. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a preset time. The spring wound carryover provides a carry-over of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carry-over automatically rewinds it...



T50000 Series 7-Day Dial with Carry-Over T51211BC

This series provides photo control initiated/time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carry-over. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a

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loads.

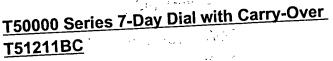
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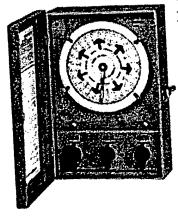
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T50000 Series 7-Day Dial with Carry-Over T51111BC

This series provides photo control initiated/time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carry-over. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a preset time. The spring wound carryover provides a carry-over of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carry-over automatically rewinds it...





This series provides photo control initiated/time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carry-over. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a

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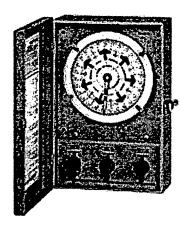
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preset time. The spring wound carryover provides a carry-over of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carry-over automatically rewinds it...



T50000 Series 7-Day Dial with Carry-Over T51311BC

This series provides photo control initiated/time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carry-over. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a preset time. The spring wound carryover provides a carry-over of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carry-over automatically rewinds it...

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T50000 Series 7-Day Dial with Carry-Over T51311BC

This series provides photo control initiated/time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carry-over. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a preset time. The spring wound carryinformation click over provides a carry-over of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carry-over automatically rewinds itself. Only 1 hour is required to rewind the carryover for each 2 hours of outage.

> The three models provide control of 1, 2 or 3 circuits. A light level adjustment is provided on the photo control. All models have single pole double throw switches and manual circuit by-pass switches. Unit is designed to control the contactor control circuit only. It is not recommended for direct switching of tungsten, mercury vapor or similar

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T50000 Series 7-Day Dial with Carry-Over T51211BC

This series provides photo control initiated/time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carry-over. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a preset time. The spring wound carryinformation click over provides a carry-over of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carry-over automatically rewinds itself. Only 1 hour is required to rewind the carryover for each 2 hours of outage.

> The three models provide control of 1, 2 or 3 circuits. A light level adjustment is provided on the photo control. All models have single pole double throw switches and manual circuit by-pass switches. Unit is designed to control the contactor control circuit only. It is not recommended for direct switching of tungsten, mercury vapor or similar

- Malibu Low Voltage Lighting
- Malibu Solar Lighting
- Home Protection & Controls
- Pool & Spa Controls
- Energy Controls
- Surge Suppression
- Weatherproof Products
- Professional Lighting
- Mosquito Products

► Energy Controls

- Electronic Time Switches
- Mechanical Time Switches
- Photo Controls
- In-Wall Timers



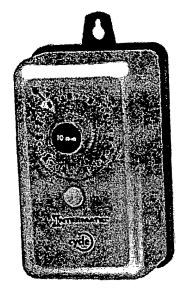
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loads.

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NTERMATIC:



This timer provides repetitive cycling for fans, misters, foggers, feeders, process equipment, oil pumps, irrigation, nurseries and other short cycle applications. The timer is field adjustable for a percentage of a total cycle duration. Total cycle durations can be set from 30 seconds up to a maximum of 30 minutes, with ON/OFF durations from 1 second up to 29 minutes. The total cycle duration is selected by positioning two jumpers on the circuit board, which are factory preset for 10 minutes. The percentage of total ON time is selected using the rotary knob, which provides 30 separate detent positions for precise selection. Power input may be any standard 120 volt or 240 volt AC supply. The timer enclosure includes two slotted mounting holes on 5" centers and a 1/2" knockout for conduit connection:

This timer is designed to function in dusty, ammonia and wash-down environments. It has an environmental operating temperature range of -10°C (14°F) to +60°C (140°F) and will withstand up to 6000 volt 3000 amp power surges.

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Timer Wiring
Model SwitchSupply AmpsWattsDiagrams
50/60 Hz

120 VAC

or 240

CT1000 SPST VAC 20 4800 Diagra

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